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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 144

CONDENSED MILK

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W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

OTTAWA, January 3, 1908.

Sir,—I beg to hand you a report of work upon 142 samples of condensed milk collected in July and August of last year.

The numbers obtained from each Inspectorial district, are as follows:—

	Unsweetened.	Sweetened.
Nova Scotia.....	2	3
Prince Edward Island.....	1	3
New Brunswick.....	3	4
Quebec.....	11	1
St. Hyacinthe.....	0	1
Montreal.....	3	1
Ottawa.....	5	5
Kingston.....	6	10
Toronto.....	3	7
London.....	3	4
Manitoba.....	5	10
Calgary.....	6	10
British Columbia.....	5	10
	47	95

A sample (No. 31173) of an Infant's food, was collected, by mistake, in the district of Prince Edward Island. In the Calgary district, two different brands, as mistaken duplicates, were obtained, under the number 28780.

Details of work done in this laboratory, are given in Tables I, II, and III. In Table IV an attempt is made to calculate the degree of condensation of the original milk, and the fat content of such milk.

The conclusions thus reached possess considerable interest; but they must not be taken as fully established, since the methods of calculation involve certain hypotheses as explained in the accompanying notes.

I may summarize the more important results of this investigation, as follows:—

1. Condensed milk, should mean the reduction of volume of normal milk, by evaporation of a greater or less portion of its water.

2. When sugar is added, this fact should be stated on the label : and preferably, if not necessarily, in the name of the article, as *Sugared* or *Sweetened* condensed milk.

3. The word *Cream*, is largely used to designate condensed milk. This is incorrect, and should be made illegal. As a matter of fact, these so-called "creams" are not any richer in milk fat than the sugared condensed milks, and many of them are distinctly poorer.

4. Among the samples examined, only one (No. 25628) is entitled to be called a cream.

5. The average milk value of most of these samples, shows them to be about 2·3 to 2·5 times the value of normal whole milk. Hence, a dilution to about two and a half (2·5) times their volume, results in converting them, for practical purposes, into milk.

The instructions for dilution printed upon the labels, are quite misleading in many cases. "For making a rich cream add from one to two parts pure water." The result would be a liquid containing about 3 to 4 per cent. of milk fat : and would be in no sense a "rich cream."

Several brands advise the addition of three parts water, to make "a pure rich, economical milk." Such a dilution would give a resultant containing about 2 per cent. of fat :—The sugared milks bear larger dilution, without evident reduction of "body"; but the fat content being practically identical with that of the non-sugared kinds, the product of dilution cannot be regarded as other than a very poor milk, thickened with sugar. One brand advises the addition of four (4) parts of water, to produce a rich milk. This would give an article containing distinctly less than 2 per cent. of milk fat.

It may be contended that the consumer should use his own judgment in diluting. While this is true, it is no justification of the manufacturer who states that the product will be "a rich milk," &c.

6. *Duplicates*, as collected by our inspectors, are always distinct, sealed packages. They do not necessarily represent the same batch, and even when they do so, it does not follow that they are strictly similar in composition. This matter has been considered exhaustively by the late Chief Analyst. (See Bulletin 69, page 20). "I am not convinced that *absolute* uniformity of product is attainable in any condensed milk factory." This conclusion was reached after very extended work done upon samples which had been manufactured under Mr. Macfarlane's direction, in five different factories, and with every attention to detail. The results now reported indicate that, while a general approximation to a type is found among samples bearing the same name, occasional deviations of considerable amount occur.

I beg to recommend the publication of this report as Bulletin No. 144.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

CONDENSED MILK.

This is generally understood to be *whole milk*, from which a more or less considerable portion of the water has been removed by evaporation.

No legal definition or standard for this article has been established in Canada.

In the United States, the following definitions were legally authorized in June, 1906.

1. *Condensed Milk, Evaporated Milk*, is milk from which a considerable portion of water has been evaporated, and contains not less than twenty-eight per cent of milk solids, of which not less than twenty-seven and five tenths (27.5) per cent is milk fat.

According to this definition, Condensed Milk should contain at least seven and seven tenths (7.7) per cent of milk fat.*

2. *Sweetened Condensed Milk*, is milk from which a considerable portion of water has been evaporated, and to which sugar (sucrose) has been added, and contains not less than twenty eight (28) per cent of milk solids, of which not less than twenty seven and five tenths (27.5) per cent is milk fat.

3. *Condensed Skim milk*, is skim milk from which a considerable portion of water has been evaporated.

4. *Evaporated Cream, Clotted Cream*, is cream from which a considerable portion of water has been evaporated.

The same authority defines milk as containing a minimum of 3.25 per cent, and cream as containing a minimum of 18 per cent of milk fat.

To produce condensed milk of standard quality, as above defined, from milk of minimum standard quality, 2.37 lbs. of milk, are required for each 1 lb. of condensed milk; that is, about 2·4 volumes will be concentrated into 1 volume, or the concentration will be 2·4. In order to make such a product represent normal milk, it is only necessary to add to it $(2\cdot4 - 1) = 1\cdot4$ volumes of water. Of course, where richer milk is used, the product will be of a higher grade, for the same degree of concentration; or, conversely, a less concentration will give a standard condensed milk.

When sugar is added, it is evident that the concentration must proceed further in order to give a product containing the same weight percentage of fat. The accompanying tables show that samples of plain, concentrated milks, containing about eight per cent of fat, possess a mean density of about 1·075; while sugared samples, as found on the market, with about 8 per cent of fat, have a density of 1·310 to 1·320.

In table IV, an attempt has been made to calculate from analytical data, the volume concentration, and the fat content of the original milk. In order to this end, it is necessary to make certain assumptions, chief of which are the following:—

(a.) That the non-fat solids of milk are not increased or diminished by the processes of manufacture.

(b.) That the non-fat solids of the milk are known. (This table is calculated on a basis of 9 per cent., and also, of 8·5 per cent., for non-fat solids. In Bulletin 142 will be found reasons for adopting 8·5 as a minimum for non-fat solids. Better grades of milk, as found in Canada indicate 9 per cent. non-fat solids.)

(c.) That, where cane sugar has been added, the amount used is 40 per cent. of the weight of the finished product. **

On account of the assumptions which it involves, this table must be regarded as approximately correct only. That its indications are not far removed from the truth is shown by their close correspondence with results derived from independent data. The concentration for non-sugared milks varies between 2·19 and 2·69; while it has been shown that, on the basis of the United States standard, this value, for minimum quality

$$* \frac{27.5}{100} \times 28 = 7.7.$$

+ If m parts by weight of milk, lose w parts of water on concentration, the resultant concentrate will weigh $m - w$; and $\frac{3.25m}{100} = \frac{7.7(m-w)}{100}$. Whence $(m - w) : m :: 3.25 : 7.7 = \frac{1}{2.37}$.

milk, would be about 2·4. Assuming 9 per cent for non-fat solids in the original milk, these extremes become 2·07 and 2·54. In the case of sugared milks, the concentration works out to from 2·43 volumes to 3·64 volumes, on the basis of 8·5 per cent non-fat solids.

The samples now reported (142 in number) are classified as non-sweetened condensed milk (Table II) and sweetened condensed milk (Table III).

A better name for the former class would be simply *Condensed milk*. But it happens that the sweetened variety was first placed upon the market, at least in large amount; † and the name *Condensed milk* carries with it, to most purchasers the idea of a sugared milk. Hence the term *Non-sweetened* or *plain* comes to be a more or less necessary distinction.

Many of the non-sugared milks now reported were sold as *Cream*; and one of them is distinctly named such on the label. With the single exception of a sample (No. 25628) obtained in Winnipeg, none of these are cream; and are, indeed, no richer in milk fat than most of the sugared milks. It is probable that the extensive use of the term *Creams* for this class of condensed milk, is due to its convenience as distinguishing them from the sweetened kinds; but such a use of the word *cream* should be made illegal, not only in the interest of the purchaser, but also in that of any manufacturer, who may wish to put a true cream on the market.

Owing to the absence of any legal standard for this class of goods, it is impossible to characterize the samples now reported, as genuine or otherwise. In Table II, the unsweetened milks are arranged alphabetically, according to the name of the brand; and in Table III, the sugared milks are treated in the same fashion.

It will be noted that, of nine (9) brands of unsweetened milk, only one reaches the United States standard of 7·7 per cent milk fat, (No. 25628, which contains 25·20 per cent of fat is a true cream; and cannot be classed with the other samples, which although sold under the name "Cream" are merely ordinary concentrated milks.)

Of nineteen (19) brands of sugared milks, only three fall distinctly below the 7·7 per cent standard for fat. One of these brands (Pheasant) contains only 5·10 per cent of fat; and is a condensed skim-milk.

Condensed milk was made the subject of inspection in 1897 (Bulletin No. 54), and in 1900 (Bulletin No. 69). Eighteen brands were represented in the collections made in 1897 and 1900. Of the 28 different brands, represented by the present collection, only eight bear names which appear in Bulletins 54 and 69. The following synopsis gives a comparison of results as found in 1900, with those recorded in the present report, for the eight brands which appear in both collections:—

NAME OF BRAND.	INSPECTION OF 1900.		PRESENT INSPECTION.	
	Samples.	Fat p.c.	Samples.	Fat p.c.
Clover.....	1	5·43	9	7·91
Eagle.....	23	8·78	12	8·0
Export.....	13	10·32	3	8·25
Jersey*.....	9	6·25	8	8·08
Mayflower.....	4	8·94	2	7·50
Nestle's.....	4	8·98	3	7·87
Owl.....	13	9·38	2	7·68
Reindeer.....	15	9·25	20	8·61

** In Bulletin 54 (January 1898) appear the results of analysis of 92 samples of condensed milk, in which the added sugar was determined, as closely as possible, and an average of about 40 per cent was found. The amount, however, varied from about 36 per cent to 43 per cent, and in one brand reached 47 per cent.

† Thus, of 16 brands examined in 1898, only 3 contained no sugar; while of 12 brands examined in 1900, only 2 brands contained no sugar.

* From Bulletin 54, inspection of 1897.

In Tables II and III, it is apparent that a high degree of uniformity in milk-fat value characterizes the brands in which considerable numbers have been analysed. At the same time, occasional variation occurs; a matter not at all surprising when the conditions of manufacture are kept in mind. It makes it important however, to distinguish between results obtained from work upon a single sample, and those obtained from work upon a considerable number of samples. It is only when an average result, obtained by analyzing several samples, is presented that we are justified in accepting it as typical for the brand in question.

A. MCGILL,
Chief Analyst.

TABLE II.—UNSWEETENED CONDENSED MILK

Name of Brand.	Sample.	Density.	MILK SOLIDS.		
			Total.	Fat.	Non-Fat.
Anchor	33340	1·070	25·55	6·50	19·05
Carnation	32172	1·065	24·94	6·98	18·01
Dahl's	22165	1·063	21·68	6·77	14·90
Gold Reef	25226	0·987	21·94	25·20	6·74
Jersey	25629	1·070	27·95	7·47	20·48
"	25640	1·070	29·70	8·50	20·11
"	25206	1·075	27·25	8·50	18·64
"	25273	1·074	24·85	8·05	16·90
"	32173	1·063	20·24	7·93	22·42
"	32907	1·073	29·01	7·91	21·10
"	33315	1·070	25·61	7·94	17·67
"	34039	1·070	30·05	8·20	21·85
Means.....	1·073	27·96	8·08	19·86	
Gerloss	25643	1·070	27·40	6·35	21·11
"	25646	1·078	27·46	6·35	21·11
"	25256	1·073	25·64	5·70	19·94
"	25259	1·072	25·05	5·26	19·67
"	25273	1·063	20·08	7·91	21·77
"	29770	1·074	27·23	6·65	20·58
"	29776	1·067	25·63	6·40	19·23
"	29780	1·075	25·93	6·95	18·90
"	30401	1·075	26·49	6·16	20·31
"	33338	1·070	25·65	6·13	19·52
"	34026	1·071	30·04	8·94	23·10
Means.....	1·074	26·98	6·50	20·48	
Reindeer Cream	20268	1·062	25·97	6·94	19·08
"	20271	1·061	29·00	7·34	21·66
"	20278	1·070	29·26	7·46	21·80
"	34038	1·061	29·11	7·04	22·07
Means.....	1·061	28·33	7·20	21·13	
St. Charles	20204		27·92	6·66	21·26
"	26267	1·081	29·30	7·20	22·10
"	26269	1·085	28·56	6·22	22·36
"	26271	1·074	26·98	6·58	20·36
"	28767	1·072	25·10	6·04	18·46
"	28771	1·070	25·23	6·95	18·26
"	28774	1·073	25·37	6·23	19·14
"	29526	1·067	25·01	7·44	17·57
"	30381	1·085	31·06	7·63	23·45
"	30389	1·075	24·48	7·16	17·33
"	32174	1·071	27·96	7·48	20·48
"	32903	1·078	29·34	7·50	21·84
"	33332	1·076	24·36	7·48	16·86
"	33404	1·079	28·43	6·75	21·68
"	34037	1·082	28·06	7·18	20·88
"	34040	1·070	26·86	8·40	17·37
Means.....	1·071	27·06	7·10	19·06	
Victor	29529	1·062	29·64	7·60	21·95
"	31171	1·076	28·06	6·41	21·64
"	32175	1·079	29·75	7·90	21·85
"	33405	1·081	29·07	7·70	21·97
Means.....	1·080	28·28	7·43	21·85	

TABLE III—SWEETENED CONDENSED MILK.

Name of Brand.	Number.	Density.	SOLIDS.		
			Total.	Fat.	Difference.
Challenge	26257		69·12	7·60	61·52
"	32802		68·00	7·20	60·80
"	33333		69·57	7·32	62·25
	Means	1·30	68·90	7·37	61·53
Clover	092		71·60	8·15	63·45
"	26264		71·35	7·37	63·96
"	29533		69·82	8·35	61·47
"	32176		71·55	8·40	63·15
"	32479		72·50	7·97	64·63
"	32484		73·25	8·00	65·25
"	32812		71·92	8·12	63·80
"	33336		71·45	8·00	63·45
"	34033		72·60	7·95	64·66
	Means	1·32	71·78	7·91	63·87
Diploma	33339	1·32	73·07	8·92	64·15
Eagle	093		70·10	8·00	62·10
"	30378		70·45	8·67	61·78
"	30392		69·55	7·87	61·68
"	32171		68·05	7·57	60·48
"	32476		68·90	8·32	60·58
"	32477		66·05	7·75	58·30
"	32478		69·13	8·75	60·37
"	32482		70·51	7·82	62·69
"	32483		66·57	7·87	58·70
"	32804		68·87	7·50	61·37
"	33337		68·67	7·60	58·07
"	34033		68·60	8·25	60·35
	Means	1·31	68·50	8·00	60·50
Empire	32164	1·31	70·82	8·55	62·27
Export	25644		70·27	8·25	62·02
"	25645		69·12	7·70	61·42
"	32811		69·20	8·75	60·45
	Means	1·32	69·53	8·23	61·30
Express	29527		67·95	7·95	60·00
"	31172		69·44	7·90	61·54
	Means	1·31	68·69	7·93	60·76
Gold Seal	094		66·17	7·90	58·27
"	25633		69·10	7·20	61·90
"	26648		71·05	7·35	63·70
"	26262		70·06	7·70	62·36
"	28773		70·35	7·60	62·75
"	28779		68·72	7·25	61·47
"	28780		69·75	7·35	62·40
"	32162		70·02	7·50	62·52
"	32167		69·95	7·25	62·70
"	32806		68·82	7·26	61·57
"	34035		66·35	7·35	59·00
	Means	1·31	69·12	7·33	61·79

TABLE III—CONDENSED SWEETENED MILK—Continued

Name of Brand.	Number.	Density.	SOLIDS.		
			Total.	Fat.	Difference.
Good Luck.....	25642	.....	70·27	7·65	62·62
	32810	.....	69·37	7·62	61·75
	33334	.....	67·70	7·65	60·05
	33402	.....	70·00	8·00	62·00
	Means	1·31	69·34	7·73	61·61
Lion.....	31170	1·31	67·35	7·62	59·73
Mayflower	29530	.....	70·97	7·29	63·68
"	32814	.....	69·62	7·72	61·90
Neatley.....	25632	.....	69·52	8·37	61·15
"	32480	.....	70·80	8·12	62·68
"	34031	.....	64·72	7·12	57·60
	Means	1·30	68·25	7·87	60·48

TABLE III.—SWEETENED CONDENSED MILK.

Name of Brand.	Number.	Density.	SOLIDS.		
			Total.	Fat.	Difference.
Oak	065		70·65	8·42	62·23
	26631		70·57	8·75	61·83
	26647		71·84	8·00	63·84
	28775		70·70	8·57	62·13
	31174		72·27	9·12	63·15
	32170		69·35	8·20	61·15
	Means...	1·31	70·90	8·51	62·30
Owl	29626		69·75	7·62	62·13
	32809		73·30	7·75	65·56
	Means...	1·33	71·53	7·68	63·85
Pheasant	32165		69·16	5·32	63·84
	32169		67·42	4·87	62·55
	Means...	1·31	68·29	5·10	63·20
Purity Reindeer	29631	1·30	69·42	7·87	61·56
	26634		72·40	8·40	64·00
	26235		74·12	8·88	65·24
	26258		73·18	8·54	64·63
	26260		73·40	8·53	64·88
	26265		74·64	8·58	66·06
	28766		71·64	8·30	63·34
	28768		71·96	8·70	63·26
	28770		72·64	8·58	64·06
	28772		73·06	8·90	64·16
	28778		73·84	8·94	64·90
	29624		71·25	8·25	63·00
	30399		74·36	8·44	65·92
	32163		72·32	8·52	63·80
	32168		73·18	8·60	64·58
	32805		72·74	8·34	64·40
	32813		72·18	8·60	63·58
	33331		73·20	8·91	64·29
	33401		67·14	8·32	58·82
	34033		73·50	8·16	65·34
	34034		72·00	9·90	62·20
	Means...	1·33	72·63	8·61	64·08
Silver Cow	091		71·35	7·95	63·40
	26630		68·42	7·55	60·87
	26261		70·70	7·75	62·95
	26266		71·42	7·85	63·57
	28777		69·00	7·45	61·55
	29632		66·17	7·35	58·83
	30384		72·95	7·72	65·23
	32481		70·75	7·50	63·25
	32485		72·62	8·22	64·40
	32806		71·25	7·40	63·85
	33335		69·12	7·85	61·77
	Means...	1·31	70·34	7·64	62·76
Stratton	32801	1·28	65·00	8·32	56·68

TABLE IV. APPROXIMATE CONCENTRATION, AND FAT CONTENT OF ORIGINAL MILK—CALCULATED.

Name of Brand.	Samples Examined	Density.	SOLIDS.			Cane Sugar.	CONCENTRATION.		ORIGINAL FAT.		
			Total	Fat.	Difference.		9 p.c.	8 5 p.c.	9 p.c.	8 5 p.c.	
Anchor	1	1.070	25.55	6.50	19.06	-	2.20	2.30	1.07	2.90	
Carnation	1	1.065	24.94	6.93	18.01	-	2.07	2.19	1.46	3.27	
Dahl's	1	1.033	11.66	6.77	4.89	-	-	-	-	-	
Gold Reef	1	0.987	31.94	25.20	6.74	-	-	-	-	-	
Jersey	3	1.076	27.98	8.06	19.88	-	2.20	2.40	3.66	3.45	
Peerless	11	1.074	26.98	6.50	20.48	-	2.37	2.51	2.88	2.69	
Reindeer Cream	4	1.061	26.33	7.20	21.13	-	2.46	2.61	3.07	3.90	
St. Charles	16	1.071	27.06	7.10	19.96	-	2.31	2.45	3.20	3.02	
Victor	4	1.080	29.28	7.43	21.85	-	2.54	2.69	3.06	2.90	
Challenge	3	1.30	68.90	7.37	61.53	40.00	3.00	3.17	3.08	2.81	
Clover	9	1.32	71.78	7.91	63.87	"	3.40	3.60	3.00	2.83	
Diploma	1	1.32	73.07	8.92	64.15	"	3.44	3.64	3.33	3.14	
Eagle	12	1.31	68.50	8.00	60.50	"	2.90	3.07	3.51	3.32	
Empire	1	1.31	70.82	8.55	62.27	"	3.15	3.33	3.45	3.26	
Export	3	1.32	69.53	8.23	61.30	"	3.03	3.20	3.49	3.30	
Express	2	1.31	68.69	7.93	60.76	"	2.93	3.10	3.44	3.26	
Gold Seal	11	1.31	69.12	7.33	61.79	"	3.08	3.26	3.08	2.96	
Good Luck	4	1.31	69.34	7.73	61.61	"	3.05	3.23	3.22	3.04	
Lion	1	1.31	67.35	7.62	59.73	"	2.80	2.97	3.47	3.28	
Mayflower	2	1.31	70.30	7.50	62.80	"	3.22	3.41	3.96	3.80	
Nestle's	3	1.30	68.35	7.87	60.48	"	2.85	3.02	3.46	3.26	
Oak	6	1.31	70.90	8.51	62.39	"	3.18	3.33	3.43	3.26	
Owl	2	1.33	71.53	7.68	63.85	"	3.42	3.63	2.90	2.74	
Pheasant	2	1.31	68.29	5.10	63.29	"	3.29	3.48	1.97	1.86	
Purity	1	1.30	69.42	7.37	61.55	"	3.02	3.20	3.29	3.11	
Reindeer	20	1.33	72.63	8.61	64.02	"	3.42	3.61	3.23	3.04	
Silver Cow	11	1.31	70.34	7.64	62.70	"	3.21	3.41	3.03	2.96	
Strathcona	1	1.28	65.00	8.32	56.68	"	2.30	2.48	4.48	4.23	

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The 'Concentration,' i.e. number of volumes of milk which are condensed into one volume and the 'Original Fat,' i.e. percentage of fat in the milk employed in manufacture, are found by the following formulas :—

Let c = Concentration.

" " Non-fat solids as found.

" s^1 = " in normal milk.

" s = Specific gravity of the sample.

" s^2 = " normal milk.

" f = Fat, as found, per cent.

" f^1 = " per cent in original milk used in manufacture.

Then $c = \frac{as}{s^1 s^2}$ and $f^1 = \frac{fa^1}{s^1 s^2}$

If we take $s^1 = 1.03$ and $s^2 = 9$, these formulas become

$$c = \frac{as}{9.27} \quad f^1 = \frac{9f}{a}$$

If we take $s^1 = 1.03$ and $s^2 = 8.5$, then the formulas become

$$c = \frac{as}{8.755} \quad f^1 = \frac{8.5f}{a}$$

These formulas have been used in calculating the numbers under the headings *Concentration* and *Original Fat*, in Table IV.

TABLE I.—RECORD OF FOOD SAMPLES OF CANNED MILK AND CREAM ANALYZED

Date of Collection.	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cost.	
1907						

DISTRICT OF NOVA SCOTIA—

Aug. 5	Canned Milk...	33401	R. B. Adams, Duke St., Halifax, N. S.	3 tins.	45	Truro Condensed Milk Co., Truro, N.S.
"	" . . .	33402	J. D. Stewart, Grafton St., Halifax, N. S.	"	30	St. Charles Condensing Co., St. Charles, Ill.
"	" . . .	33403	Jas. Hogan, Prince St., Halifax, N. S.	"	36	Truro Condensed Milk Co., Truro, N.S.
"	Canned Cream...	33404	Lardier, Hubley & Co., Barrington St., Halifax, N.S.	"	45	St. Charles Condensing Co., Ingersoll, Ont.
"	" . . .	33405	Dillon Bros., Sackville St., Halifax, N. S.	"	30	Charlottetown Condensed Milk Co., Charlottetown, P.E.I.

DISTRICT OF PRINCE EDWARD ISLAND—

July 30	Canned Milk...	31170	Sterns Bros., Souris.	3 tins.	45	Charlottetown Condensed Milk Co., Charlottetown
" 31	" Cream . . .	31171	Pool & Thompson, Montague Bridge.	" "	" "	" "
Aug. 6	" Milk . . .	31172	P. McNutt & Son, Malpeque . . .	" "	" "	" "
.....	.....	31173	Jardine & Bernard, Kensington.	"	1.25	Henri Nestle, London . . .
" 8	" Milk . . .	31174	Sanderson & Co., Charlottetown.	"	45	Charlottetown Condensed Milk Co.

DISTRICT OF NEW BRUNSWICK—

July 25	Canned Milk...	29524	Baird & Peters, Ward St., St. John, N.B.	3 tins.	45	Truro Condensed Milk Co., Ltd., Truro, N.S.
"	" . . .	29525	Dearborn & Co., Prince William St., St. John, N.B.	"	"	Canada Milk Condensing Co., Antigonish Co., N.S.
"	Canned Cream . . .	29526	W. A. Simonds, 89 Union St., St. John, N.B.	"	60	St. Charles Condensing Co., Ingersoll, Ont.
"	" Milk . . .	29527	The Geo. E. Barbour Co., Ltd., North Wharf, St. John, N.B.	"	36	Charlottetown Condensed Milk Co., Ltd., Char- lottetown, P.E.I.
Aug. 6	" Cream . . .	29528	Sussex Mercantile Co., Ltd., Sussex, Kings Co., N.B.	"	45	Truro Condensed Milk and Canning Co., Truro, N.S.
" 7	" . . .	29529	W. G. Bell, 314 Main St., Moncton, N.B.	"	54	The Charlottetown Con- densed Milk Co., Ltd., Charlottetown, P.E.I.
" 9	" Milk . . .	29530	J. B. Snowball & Co., Ltd., Chatham, N.B.	"	45	Truro Condensed Milk Co., Ltd., Truro, N.S.
" 20	" . . .	29531	Inches & Grimmer, St. Stephen, N.B.	"	"	St. Charles Condensing Co., Ingersoll, Ont.
" 21	" . . .	29532	Geo. T. Whelpley Estate, Queen St., Fredericton, N.B.	"	"	" "
" 23	" . . .	29533	W. S. Skillee, Main St., Wood- stock, N.B.	"	"	Truro Condensed Milk Co., Truro, N.S.

AT THE LABORATORY OF THE INLAND REVENUE DEPARTMENT.

Inspector's Report	Name of Brand.	RESULTS OF ANALYSIS.						Remarks.	
		Specific gravity at 15° C.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.		
			p.c.	p.c.	p.c.	p.c.	p.c.		
R. J. WAUGH, INSPECTOR.									

" Reindeer Brand "	Reindeer	1·2820	32·8	14	8·32	....	49·94	
" Good Luck Brand," Prepared at Ingersoll, Ont.	Good Luck	1·3060	30·00	10·00	8·00	....	53·47	
" Clover Brand," private mark, 2683.	Clover.....	1·3215	27·35	72·62	7·95	....	55·55	
Labeled St. Charles, un-sweetened, Evaporated Cream.	St. Charles.....	1·0787	71·56	26·43	1·24	6·75	11·49	....
" Victor Brand," Evaporated Cream.	Victor.....	1·0817	70·33	20·67	1·65	7·70	11·15	....

T. MOORE INSPECTOR.								
" Lion Brand," guava- teed absolutely pure.	Lion	1·3060	32·65	57·35	7·62	....	49·25	
" Victor Brand," same as above, except Evapo- rated Cream instead of milk.	Victor	1·0767	71·95	26·05	1·68	6·41	10·33	....
" Express Brand," same as above.	Express	1·3007	30·00	60·44	7·92	....	50·25	
Made with best cow's milk.	Nestle's Food.....							Collected by mistake.
" Oak Brand," same as Oak Lion Brand.	Oak	1·3072	27·73	72·27	9·12	....	51·92	

J. C. FERGUSON, INSPECTOR.								
" Reindeer Brand," trade mark, Reindeer Head.	Reindeer	1·3097	28·75	71·25	8·25	....	53·82	
" Owl Brand," Registered Trade Mark, Owl Head, guaranteed pure; marks 8, 4, 4.	Owl.....	1·3192	20·20	69·75	7·62	....	50·60	
Trade Mark, Cow, &c. Stencil Mark N O Es +	St. Charles.....	1·0670	74·99	25·01	1·37	7·44	10·61	....
" Express Brand," Train of Cars — Side, C. 58 on bottom of can, every can guaranteed.	Express	1·3046	32·05	67·96	7·93	....	50·00	
" Reindeer Brand," Trade Mark, Reindeer's Head, No. 731.	Reindeer Cream	1·0793	70·74	29·26	1·70	7·46	11·50	....
" Victor Brand," Guar- anteed.	Victor	1·0817	70·26	29·64	1·60	7·69	12·18	....
" Mayflower Brand," Guaranteed.	Mayflower.....	1·3106	29·03	70·97	7·29	....	52·27	
Condensed Milk, Trade Mark Registered(Cow) + 17C. Purity.	Purity.....	1·3043	20·58	69·42	7·87	....	51·10	
Silver Cow, marks J. O. V +. Guaranteed.	Silver Cow	1·2970	28·53	66·17	7·35	....	49·37	
No. 2773 Clover Brand. Every can guaranteed.	Clover	1·3166	30·18	69·83	8·35	....	51·37	

TABLE I.—RECORD OF FOOD SAMPLES OF CANNED MILK AND CREAM ANALYZED

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						

DISTRICT OF QUEBEC.—

July 22	Canned Cream..	26254	S. Charles Delage, 368 St. Joseph	3 tins.	45	St. Charles Evaporated Cream.
" 22	" Milk...	26255	Moise Pouilot, 367 St. Joseph...	3 "	45	Reindeer Brand Condensed Milk.
" 22	" Cream..	26256	S. J. Chabot, 271 St. Joseph....	3 "	45	Borden's, Ingersoll, Ont...
" 22	" Milk....	26257	" "	3 "	45	Bordens Condensed Milk Co., N.Y.
" 22	" "	26258	" "	3 "	45	Reindeer Condensed Milk.
" 22	" Cream..	26259	Charles S. Riverin, 55 de la Couronne.	3 "	60	Bordens Peerless Cream ..
" 22	" Milk....	26260	" " ..	3 "	45	Reindeer Condensed Milk.
" 22	" "	26261	" " ..	3 "	45	St. Charles Condensing Milk.
" 22	" "	26262	" " ..	3 "	45	Bordens Condensed Milk, N.Y.
" 22	" Cream..	26263	Myrand S. Pouilot, 70 de la Couronne.	3 "	60	Reindeer Cream.
" 22	" Milk....	26264	" " ..	3 "	30	Clover Condensed Milk ..
" 22	" "	26265	" " ..	3 "	45	Reindeer Condensed Milk.
" 22	" "	26266	" " ..	3 "	45	Silver Cow Milk
" 22	" "	26267	" " ..	3 "	45	St. Charles Evaporated Cream.
" 23	" Cream..	26268	M. Boyce & Son, 21 Cote d'Abraham.	3 "	45	Jersey Cream Truro Condensed. 414
" 23	" " ..	26269	" " ..	3 "	45	St. Charles Evaporated Cream.
" 23	" " ..	26270	Isidore Voyer, 226 Richelieu	3 "	45	" " ..
" 23	" " ..	26271	M. W. Colman, 98 du Pont....	3 "	60	Reindeer Evaporated Cream
" 23	" " ..	26272	" " ..	3 "	60	Jersey Cream
" 23	" " ..	26273	O. Lacroix, 19 St. Joseph.	3 "	45	Bordens Peerless Evaporated Cream.

AT THE LABORATORY OF THE INLAND REVENUE DEPARTMENT—Continued.

Inspector's Report.	Name of Brand.	RESULTS OF ANALYSIS.							Remarks.	
		Specific Gravity at 15° C.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss at 500° C. warm water.		
			p. o.	p. o.	p. o.	p. o.	p. o.	p. o.		

E. BELAND, INSPECTOR.

.....	St. Charles.....	1·078	72·08	27·92	1·51	6·66	11·15	.....
.....	Reindeer.....	1·0800	26·88	74·12	.....	8·88	.....	56·74	
.....	Peerless.....	1·0730	74·36	25·64	1·68	5·70	10·74	.....
.....	Challenge.....	1·0023	30·88	69·12	.....	7·00	.....	51·97	
.....	Reindeer.....	1·0836	26·84	73·44	.....	8·54	.....	54·58	
.....	Peerless.....	1·073	74·36	25·66	1·31	5·98	10·47	.....
.....	Reindeer.....	1·0836	26·60	73·40	.....	8·52	.....	55·40	
.....	Silver Cow.....	1·0007	29·20	70·70	.....	7·75	.....	54·00	
.....	Gold Seal.....	1·3106	29·95	70·05	.....	7·70	.....	51·98	
Badly decomposed	Reindeer Cream.....	1·0830	74·08	25·97	1·28	6·04	10·81	.....
.....	Clover.....	1·3186	28·65	71·35	.....	7·37	.....	54·32	
.....	Reindeer.....	1·3815	26·36	74·64	.....	8·58	.....	56·33	
.....	Silver Cow.....	1·3106	25·58	71·42	.....	7·86	.....	51·52	
.....	St. Charles.....	1·081	70·70	29·30	1·20	7·20	11·36	.....
No. on Box, 1354.....	Jersey.....	1·075	72·76	27·23	1·28	8·50	10·61	.....
.....	St. Charles.....	1·0850	71·42	28·58	1·52	6·22	10·73	.....
.....	".....	1·074	73·08	26·98	1·47	6·56	10·61	.....
No. on Box, 581.....	Reindeer Cream.....	1·0811	71·00	29·00	1·74	7·34	11·70	.....
No. on Box, 1342.....	Jersey.....	1·074	75·15	24·85	1·60	8·05	11·08	.....
.....	Peerless.....	1·0830	70·32	29·68	1·62	7·91	11·48	.....

TABLE I.—RECORD OF FOOD SAMPLES OF CANNED MILK AND CREAM ANALYZED

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						

DISTRICT OF ST. HYACINTHE—

Aug.	6	Canned milk....	91 MacRae Bros., Richmond	3 tins.	60	St. Charles Condensing Co., Ingersoll, Ont.
"	8	"	92 King's Mines' Stores, Thetford	"	86	Truro Condensed Milk Co., Huntingdon, Que., and Truro, N.S.
"	9	"	93 Woodman & McKee, Comtoocook	"	54	G. Borden, New York, U. S. A.
"	23	"	94 E. Goyette, Cowansville	"	45	Bordens Condensed Milk Co., Ingersoll, Ont.
"	27	"	95 W. Ducharme, Magog	"	60	Charlottetown Condensed Milk Co., Ltd., Charlottetown.

DISTRICT OF MONTREAL—

July	23	Canned milk....	32801 W. H. Scroggie, Ltd., St. Catharine, West.	3 tins.	30	.....
"	24	"	32802 H. Poirier, 27 St. Catharine, West	"	36	.....
"	24	Canned cream ..	32803 " "	"	45	.....
"	24	Canned milk....	32804 Currie Bros., 113 Bleury	"	45	.....
"	24	"	32805 T. Elliott, 237 Bleury	"	45	.....
"	24	"	32806 C. Spector, 18 Ontario, E	"	45	.....
"	24	"	32807 Raymond Freres, 395 St. Lawrence.	"	45	.....
"	25	"	32808 Laporte, Martin & Cie, Ltd., St. Peter A.	"	32	.....
"	25	"	32809 " " "	"	35	.....
"	25	"	32810 " " "	"	27	.....
"	25	"	32811 " " "	"	36	Charlottetown C. M. Co..
"	25	"	32812 " " "	"	27	.....
Aug.	9	"	32813 Truro Condensed Milk Co., Huntingdon.	"	45	.....
"	9	"	32814 " " "	"	33	.....
"	9	"	32815 " " "	"	39	.....

AT THE LABORATORY OF THE INLAND REVENUE DEPARTMENT—Continued.

Inspector's Report.	Name of Brand.	RESULTS OF ANALYSIS.							Remarks.
		Specific grav. ity at 15° C.	Water.	Total Solids.	Ash.	Fat.	Milk Solids.	Loss to 500 C. C. warm water.	
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	

J. C. ROULEAU, INSPECTOR.

Silver Cow Brand.....	Silver Cow.....	1·3097	28·65	71·35	....	7·95	....	53·55	
.....	Clover	1·3097	28·40	71·60	....	8·15	....	50·65	
Tins stamped A.S.N. +	Eagle	1·3114	29·90	70·10	....	8·00	....	47·07	
.....	Gold Seal.	1·3097	33·88	66·17	....	7·90	....	50·75	
.....	Oak	1·3097	29·35	70·65	....	8·42	....	53·10	

J. J. COSTIGAN, INSPECTOR.

Strathcona Brand, marks A.S.Z. +.	Strathcona.....	1·2820	35·00	65·00	....	8·32	....	45·50	
Challenge Brand, M. L O. +.	Challenge.....	1·3012	32·00	68·00	....	7·20	....	50·22	
St. Charles Brand	St. Charles.....	1·0776	70·70	29·34	1·74	7·50	10·67	....
Eagle Brand, N. I. N. +.	Eagle	1·3158	31·13	68·87	....	7·50	....	50·57	
Reindeer Brand, 501....	Reindeer	1·3072	27·26	72·74	....	8·34	....	54·30	
Silver Cow Brand, S. O. V. +.	Silver Cow.....	1·3097	28·75	71·25	....	7·40	....	54·45	
Jersey Cream Brand, 408	Jersey	1·073	70·90	29·01	1·45	7·91	11·97	....
Gold Seal Brand, N. E. S. +.	Gold Seal.....	1·3023	31·18	68·82	....	7·25	....	50·80	
Owl Brand, 388.....	Owl	1·2449	36·70	73·30	....	7·75	....	55·05	
Good Luck Brand, S. N. J. +.	Good Luck.....	1·3046	30·63	69·37	....	7·68	....	52·70	
Export Brand	Export.....	1·3192	30·80	69·20	....	8·75	....	52·55	
Clover Brand, 587	Clover	1·3166	29·08	71·92	....	8·12	....	54·10	
Reindeer Brand, 598....	Reindeer	1·3114	27·82	72·18	....	8·00	....	51·84	
Mayflower Brand, 599....	Mayflower.....	1·3097	30·38	66·62	....	7·72	....	52·10	
Jersey Cream Brand, 528	Jersey	1·076	74·39	25·01	1·62	7·94	11·15	....

TABLE I.—RECORD OF FOOD SAMPLES OF CANNED MILK AND CREAM ANALYZED

Date of Collection.	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cost.	
1907.						

DISTRICT OF OTTAWA—

July 29	Canned milk...	34031	Medical Hall, Hull.....	3 tins.	60	National Drug and Chemi- cal Co., Ottawa.
" 29	" . . .	34032	"	3 "	45	" " "
" 29	" . . .	34033	Modern Drug Store, Hull.....	3 "	55	Lyman Knox & Co., Mont- real.
" 29	" . . .	34034	"	3 "	45	" " "
" 29	" . . .	34035	Theo. Payment, Ottawa.....	3 "	75	Ottawa Drug Co., Ottawa.
" 30	Canned cream . .	34036	F. A. Scott & Son, Ottawa....	3 "	60	Borden Condensed Milk Co.
" 30	" . . .	34037	H. N. Bate and Co., Ottawa.....	3 "	35	H. N. Bate & Son.....
" 31	" . . .	34038	"	3 "	60	" "
" 31	" . . .	34039	A. L. Pinard, Ottawa..	3 "	45	" "
" 31	" . . .	34040	T. Lindsay, Ltd., Ottawa.....	3 "	35	The St. Charles Condensing Co., Ingersoll, Ont.

DISTRICT OF KINGSTON—

July 24	Canned milk...	32476	A. Glover, Earl St., Kingston...	3 tins.	45	Borden, Ingersoll, Ont....
" 24	" . . .	32477	G. Mahood, Princess St., King- ston.	3 "	60	" "
" 24	" . . .	32478	J. Reddin, Princess St., King- ston.	3 "	60	" "
" 24	" . . .	32479	J. Crawford, Princess St., King- ston.	3 "	60	Clover, Truro.....
" 24	" . . .	32480	J. B. McLeod, Princess St., King- ston.	3 "	100	Henri Nestle, Vevey, Switz- erland.
" 24	" . . .	32481	J. Kelly, Princess St., Kingston	3 "	45	St. Charles, Ingersoll.....
" 26	" . . .	32482	Wallbridge & Clark, Belleville Front.	3 "	45	Borden, Ingersoll, Ont....
" 26	" . . .	32483	J. R. Harvey & Son, King St., Cobourg.	3 "	60	" "
" 26	" . . .	32484	"	3 "	45	Clover Brand, Truro.....
" 26	" . . .	32485	A. J. Gould, King St., Cobourg.	3 "	45	St. Charles, Ingersoll....

AT THE LABORATORY OF THE INLAND REVENUE DEPARTMENT—Continued.

Inspector's Report.	Name of Brand.	RESULT OF ANALYSIS.							Remarks.
		Specific Gravity at 15°C.	Water.	Total Solids	Ash	Fat	Milk Solids	Cream	
			p. c.	p. c.	p. c.	p. c.	p. c.	C. G. per cent.	

J. A. RICKY, INSPECTOR.

Nestle Brand. Mark x	Nestles.....	1·2879	35·28	64·72	....	7·12	....	47·93	Milk was not in good condition.
Truro Condensed Milk Co., Truro, N.S., 449.	Reindeer.....	1·3114	35·50	73·50	....	8·16	....	55·24	
Eagle Brand, Borden Cond. Milk Co., N.Y. A O A +	Eagle.....	1·2029	31·40	68·60	....	8·20	....	49·95	
Reindeer Brand, Truro Cond. Milk Co., N.S., 449.	Reindeer.....	1·3149	28·00	73·00	....	9·80	....	51·00	
Borden Cond. Milk Co., Ingersoll. L O O +	Gold Seal.....	1·2945	33·65	68·25	....	7·25	....	49·60	
Peerless Brand. S C T V +	Peerless.....	1·0707	69·96	30·04	1·70	6·94	12·45	....
St. Charles Brand. St. Charles Cond. Co., Ingersoll. S E T T +	St. Charles.....	1·082	71·94	28·06	1·00	7·18	11·15	....
Reindeer Brand, Truro Cond. Milk and Canning Co., Truro, N.S. 994.	Reindeer Cream.....	1·0811	70·80	29·11	1·73	7·04	11·70	....
Truro Cond. Co. Cut of cow on front of tin, 187.	Jersey.....	1·0793	69·97	30·03	1·58	8·20	11·63	....
Cut of cow in gold on front of tin. N E O A +	St. Charles.....	1·070	74·14	25·86	1·03	8·49	11·29	....

J. HOGAN, INSPECTOR.

Eagle Brand.....	Eagle.....	1·2945	31·10	68·90	....	8·32	....	49·77	
".....	".....	1·3114	33·90	66·06	....	7·75	....	48·93	
".....	".....	1·5111	30·10	62·17	....	8·75	....	50·57	
Clover.....	Clover.....	1·3106	27·50	72·50	....	7·87	....	54·87	
Nestles.....	Nestles.....	1·2029	30·20	70·80	....	8·12	....	51·50	
Silver Cow.....	Silver Cow.....	1·3080	29·28	70·78	....	7·50	....	53·52	
Eagle.....	Eagle.....	1·3037	28·40	70·51	....	7·82	....	49·77	
".....	".....	1·2857	33·43	66·57	....	7·87	....	47·20	
Clover Brand.....	Clover.....	1·3218	36·75	73·26	....	8·00	....	55·26	
Silver Cow.....	Silver Cow.....	1·3149	27·38	72·62	....	8·22	....	54·03	

TABLE I.—INVENTORY OF FOOD SAMPLES OF CANNED MILK AND CREAM ANALYZED

Date of Collection	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Count.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity	Count	
1907.						

DISTRICT OF TORONTO—

Aug. 9	Canned milk . . .	33331	Gibbons Bros., 742 Queen St. East, Toronto.	3 tins.	45	Truro Condensed Milk Co., Ltd., Truro, N.S.
" 9	Canned cream . . .	33332	W. J. McCullough, West Toronto Junction.	3 "	46	St. Charles Cond. Co., Branch Factory, Ingersoll, Ont.
" 12	Canned milk . . .	33333	Ino. O. Carpenter, 10 Market Square, Hamilton.	3 "	30	Borden's Condensed Milk Co., Branch Factory, Ingersoll, Ont.
" 12	" . . .	33334	Peters & Bonnall, 347 Barton St. East, Hamilton.	3 "	30	St. Charles Condensing Co., Branch Factory, Ingersoll, Ont.
" 15	" . . .	33335	F. A. Wilson, 38 Queen St., St. Catharines.	3 "	35	" " "
" 15	" . . .	33336	J. T. Festing, 11 St. Paul St., St. Catharines.	3 "	30	Truro Condensed Milk Co., Truro, N.S.
" 19	" . . .	33337	Lisson & Co., Niagara Falls	3 "	60	Borden's Condensed Milk Co., Branch Factory, Ingersoll, Ont.
" 21	Canned cream . . .	33338	F. Guay, 318 Queen St. West, Toronto.	3 "	45	" " "
" 21	Canned milk . . .	33339	John Butcher, 300 Queen St. West, Toronto.	3 "	25	Will's United Dairies, made in England.
" 21	Canned cream . . .	33340	Robt. Simpson Co., Ltd., Cor. Yonge and Queen Sts., Toronto	3 "	38	Prepared especially for Eby, Blain & Co., Ltd., Toronto, Sole Agents.

DISTRICT OF LONDON—

July 26	Canned milk . . .	30378	Chas. Nairn, Goderich	3 tins.	45	Borden Condensed Co.
" 27	" . . .	30381	Cardino Bros., Seaforth	3 "	45	A. M. Smith & Co., London
" 29	" . . .	30384	A. Beattie & Co., Stratford	3 "	45	James Lumbers, Toronto . .
" 29	Canned cream . . .	30389	J. M. Adam, St. Marys	3 "	45	A. M. Smith & Co., London
" 30	Canned milk . . .	30392	Homer Robertson, Sarnia	3 "	75	Lyman Bros., Toronto . . .
" 31	" . . .	30399	G. Winona, Sarnia	3 "	30	Vendor who bought from manufacturer in Truro, N.S.
Aug. 7	Canned cream . . .	30404	Hugh Malcolmson, Chatham	3 "	45	Vendor

DISTRICT OF MANITOBA—

Aug. 7	Canned cream . . .	25628	Hudson Bay Co., Winnipeg	3 tins.	80	Stones Sons, London, Eng.
" 7	" . . .	25629	" " "	3 "	45	The Truro Cond. Milk Co., Truro, N.S.
" 7	Canned milk . . .	25630	" " "	3 "	45	St. Charles Cond. Co., St. Charles, Ill., U.S.A.

AT THE LABORATORY OF THE INLAND REVENUE DEPARTMENT—Continued

Inspector's Report.	Name of Brand.	RESULTS OF ANALYSIS.								Remark	
		Specific Gravity at 15°C.	Water.		Total Solids		Ash.	Fat.	Milk Sugar.	Loss to 300°C. C. warm water.	
			p. c.	p. c.	p. c.	p. c.					

H. J. DAGER, INSPECTOR.

Reindeer Brand 376 . . .	Reindeer	1·3183	26·89	73·29	....	8·91	....	54·78		
.....	St. Charles	1·075	75·04	24·26	1·39	7·48	9·45	....	
Challenge Brand, S S V +	Challenge	1·3097	30·43	69·57	....	7·32	....	52·86		
Good Luck Brand, L J N +	Good Luck	1·3097	22·30	67·70	....	7·65	....	53·2		
Silver Cow Brand, A T T +	Silver Cow	1·3012	20·88	60·12	....	7·35	....	51·87		
Clover Brand 507	Clover	1·2572	29·55	71·45	....	8·00	....	56·50		
Eagle Brand, N J N +	Eagle	1·3105	34·33	65·67	....	7·00	....	48·87		
Peerless Brand, N O T E +	Peerless	1·0701	74·35	25·68	1·40	6·13	10·61	....	
Diploma Brand	Diploma	1·3192	26·93	73·07	....	8·92	....	53·80		
Anchor Brand, N J N L +	Anchor	1·070	74·45	25·55	1·08	6·51	10·47	....	

T. KIDD, INSPECTOR.

Eagle Brand	Eagle	1·3037	20·55	70·45	....	8·67	....	51·65		
.....	St. Charles	1·0846	68·92	31·08	1·72	7·63	13·10	....	
Made in St. Charles, Ill.	Silver Cow	1·3192	27·06	72·96	....	7·72	....	55·82		
Made by St. Charles Co., Ingersoll, Ont.	St. Charles	1·075	75·52	24·48	1·00	7·16	10·62	....	
Borden Cond. Milk Co., New York, U.S.A.	Eagle	1·3114	30·45	69·55	....	7·87	....	51·07		
Reindeer Brand	Reindeer	1·3245	25·64	74·26	....	8·44	....	55·40		
Peerless Brand, Ingersoll, Ont.	Peerless	1·0748	73·51	26·49	1·38	6·18	11·43	....	

A. C. LAFIVIERE, INSPECTOR.

.....	Gold Reef	0·987	68·06	31·94	0·40	25·20	4·79	51·16		
.....	Jersey	1·0760	72·07	27·93	1·50	7·47	11·50	....	
.....	Silver Cow	1·3097	31·58	68·42	....	7·55	....	51·27		

TABLE I.—RECORD OF FOOD SAMPLES OF CANNED MILK AND CREAM ANALYZED

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnish- er as given by Vendor.
				Quantity.	Cents.	
1907.						

DISTRICT OF MANITOBA.—

Aug.	7	Canned Milk...	25631	Hudson Bay Co., Winnipeg.....	3 tins.	45	Charlottetown Cond. Milk Co., Charlottetown, P.E.I.
"	7	" " ...	25632	" "	3 "	60	Henri Nestle, Vevey, Switzerland.
"	7	" " ...	25633	" "	3 "	45	Bordens Cond. Milk Co., New York.
"	7	" " ...	25634	" "	3 "	45	Truro Cond. Milk Co., Truro, N.S.
"	8	" " ...	25642	J. Robinson Co., Winnipeg.....	3 "	40	St. Charles Cond. Co., St. Charles, Ill., U.S.A. and Ingersoll, Ont.
"	8	Canned Cream..	25643	" "	3 "	45	Bordens Cond. Milk Co., N.Y.
"	9	" Milk...	25644	Campbell Bros. & Wilson, Winni- peg.	3 "	35	Charlottetown Cond. Milk Co., Charlottetown, P.E.I.
"	9	" " ...	25645	Sutherland Bros., Winnipeg.....	3 "	45	" "
"	9	" Cream...	25646	T. J. Davis, Winnipeg	3 "	45	Bordens Cond. Milk Co., N.Y.
"	9	" Milk...	25647	" "	3 "	35	Charlottetown Cond. Milk Co., Charlottetown, P.F.I.
"	9	" " ...	25648	" "	3 "	35	Bordens Cond. Milk Co., New York, U.S.A.
"	9	" Cream..	25649	Laurie Bros.....	3 "	40	Truro Cond. Milk Co., Truro, N.S.

DISTRICT OF CALGARY.—

Aug.	17	Canned Milk...	28766	L. B. Cochran, Medicine Hat...	3 tins.	50	Truro Cond. Milk Co., Truro, N.S.
"	17	" Cream..	28767	" "	3 "	45	St. Charles Cond. Co., St. Charles, Ill.
"	17	" Milk...	28768	Leonard & Harris, Medicine Hat	3 "	50	Truro Cond. Milk Co., Truro, N.S.
"	17	" Cream...	28769	" "	3 "	50	Bordens Cond. Milk Co., Ingersoll, Ont.
"	29	" Milk...	28770	Revillon Bros., Edmonton.....	3 "	50	Truro Cond. Milk Co., Truro, N.S.
"	29	" Cream..	28771	" "	3 "	50	St. Charles Cond. Co., St. Charles, Ill.
"	29	" Milk ...	28772	The Acme Co., Ltd., Edmonton.	3 "	50	Truro Cond. Milk Co., Truro, N.S.
"	29	" " ...	28773	" "	3 "	50	Borden Cond. Milk Co., N.Y.
"	29	" Cream..	28774	" "	3 "	50	St. Charles Cond. Co., St. Charles, Ill.
"	29	Canned milk ...	28775	A. McDonald, Edmonton.....	3 tins.	50	Charlottetown Milk Co., Ltd., P.E.I.
"	29	Canned cream ..	28776	"	3 "	50	Borden Cond. Milk Co., Ltd., New York, U.S.A.
"	29	Canned milk ...	28777	"	3 "	50	St. Charles Cond. Co., Ltd., St. Charles, Ill.

AT THE LABORATORY OF THE INLAND REVENUE DEPARTMENT—Continued.

Inspector's Report.	Name of Brand.	RESULTS OF ANALYSIS.								Remarks.		
		Specific grav. ity at 15° C.	Water.		Total Solids.		Ash.	Fat.	Milk Sugar.			
			p. c.	p. c.	p. c.	p. c.						

A. C. LARIVIERE, INSPECTOR—Continued.

.....	Oak.....	1·3037	29·43	70·57	.....	8·75	.....	52·00	.....	.....
.....	Nestles.....	1·3166	30·48	69·52	.....	8·38	.....	49·62	.....	.....
Prepared at Ingersoll, Ont.	Gold Seal.....	1·3080	30·90	69·10	.....	7·20	.....	51·47	.....	.....
.....	Reindeer.....	1·3192	27·60	72·40	.....	8·40	.....	54·20	.....	.....
.....	Good Luck.....	1·3080	29·73	70·27	.....	7·65	.....	53·20	.....	.....
.....	Peerless.....	1·0758	72·54	27·46	1·62	6·35	10·26	.....	.....	.....
.....	Export.....	1·3245	29·73	70·27	.....	8·35	.....	50·07	.....	.....
.....	".....	1·3184	30·88	69·12	.....	7·70	.....	50·57	.....	.....
.....	Peerless.....	1·0782	71·48	27·46	1·62	6·35	10·26	.....	.....	.....
.....	Oak.....	1·3105	28·16	71·84	.....	8·00	.....	54·05	.....	.....
Prepared at Ingersoll, Ont.	Gold Seal.....	1·3210	28·95	71·05	.....	7·35	.....	51·35	.....	.....
.....	Jersey.....	1·070	71·30	28·70	1·49	8·50	11·15	.....	.....	.....

R. W. FLETCHER, INSPECTOR.

.....	Reindeer.....	1·3166	28·36	71·64	.....	8·30	.....	54·04	.....	.....
.....	St. Charles.....	1·072	74·90	25·10	1·08	6·64	9·92	.....	.....	.....
.....	Reindeer.....	1·3072	28·04	71·96	.....	8·70	.....	54·10	.....	.....
.....	Peerless.....	1·0741	72·76	27·23	1·50	6·65	10·61	.....	.....	.....
.....	Reindeer.....	1·3166	27·36	72·64	.....	8·58	.....	55·10	.....	.....
.....	St. Charles.....	1·070	74·78	25·23	1·15	6·95	9·34	.....	.....	.....
.....	Reindeer.....	1·3072	26·84	73·06	.....	8·90	.....	55·10	.....	.....
.....	Gold Seal.....	1·3007	29·65	70·35	.....	7·60	.....	51·80	.....	.....
.....	St. Charles.....	1·073	74·03	25·37	1·30	6·23	10·26	.....	.....	.....
.....	Oak.....	1·3080	29·30	70·70	.....	8·57	.....	52·87	.....	.....
.....	Peerless.....	1·067	74·98	25·63	1·45	6·40	10·13	.....	.....	.....
.....	Silver Cow.....	1·3023	31·00	69·00	.....	7·45	.....	52·06	.....	.....

AT THE LABORATORY OF THE INLAND REVENUE DEPARTMENT—Continued.

Inspector's Report.	Name of Brand.	RESULT OF ANALYSIS.							Remarks.
		Specific Grav. ity at 15° C.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 50° C. C. warm water.	
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		

FLETCHER, INSPECTOR—Continued.

.....	Reindeer.....	1·3236	26·16	73·84	.....	8·94	.....	55·82	
.....	Gold Seal.....	1·3080	31·28	68·72	.....	7·25	.....	51·47	
.....	{ Gold Seal.....	1·3166	30·25	69·75	.....	7·35	.....	
.....	Peerless.....	1·0750	74·17	25·83	1·54	6·93	10·40		

R. B. PARKINSON, INSPECTOR.

Gold Seal Brand, N J L +	Gold Seal.....	1·3072	29·98	70·02	.....	7·50	.....	51·97	
Reindeer Brand, 2719...	Reindeer.....	1·3166	27·68	72·32	.....	8·52	.....	54·92	
Empire Brand, 785....	Empire.....	1·3070	29·18	70·82	.....	8·55	.....	52·05	
Pheasant Brand.....	Pheasant.....	1·3218	30·84	69·16	1·86	5·32	8·14	.....	Casein, &c., 8·24. Cane sugar by diff., 45·60.
No. on tin T 832.....	Dahl's.....	1·0325	83·34	11·66	0·70	2·50	6·77	.....
Gold Seal Brand, N J O +	Gold Seal.....	1·3105	30·05	69·95	.....	7·25	.....	48·70	
Reindeer Brand, 2723...	Reindeer.....	1·3236	26·82	73·18	.....	8·60	.....	55·62	
Pheasant Brand.....	Pheasant.....	1·3131	32·58	67·42	1·86	4·87	7·73	.....	Casein, &c., 8·34. Cane sugar by diff., 44·62.
Oak Brand, 63.....	Oak.....	1·2978	30·03	69·35	.....	8·90	.....	47·30	
Eagle Brand, N E A +	Eagle.....	1·3029	31·93	68·06	.....	7·57	.....	50·25	
Carnation Brand, 763 5.	Carnation.....	1·0650	75·05	24·95	1·20	6·98	10·13	.....
Jersey Brand, 1085.....	Jersey.....	1·083	60·66	30·34	1·22	7·92	10·81	.....
St. Charles Brand, S V L L +	St. Charles.....	1·071	72·04	27·96	1·35	7·48	10·47	.....
Victor Brand, 452.....	Victor.....	1·079	70·25	29·75	1·75	7·90	10·90	.....
Clover Brand, 2018	Clover.....	1·3114	28·45	71·55	.....	8·40	.....	52·20	